



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010539
CERTIFICATION DATE: December 3, 2013
DATE RECERTIFICATION DUE: June 1, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

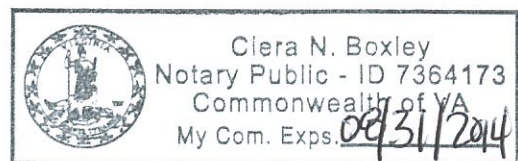
Melissa Kennedy
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 11th day of December, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 12/3/2013

MMB
 NGA

Instrument Serial Number: 010539 **As of 03-Dec-13**

| Maintenance | Certification | Technician | |
|--------------------|----------------------|-------------------|---|
| Date | Date | Initials | Remarks |
| 03-Dec-13 | 03-Dec-13 | MMB (26417) | FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD. |
| 19-Jun-13 | 19-Jun-13 | DBH (21250) | CERTIFIED. REPLACED DRY GAS STANDARD. |
| 09-Jan-13 | 09-Jan-13 | HMS (18910) | CERTIFIED |
| 11-Sep-12 | 19-Jul-12 | TLN (25387) | REPLACED DRY GAS STANDARD. |
| 19-Jul-12 | 19-Jul-12 | SED (24178) | CERTIFIED. REPLACED DRY GAS STANDARD. |
| 02-Feb-12 | 02-Feb-12 | TLN (25387) | CERTIFIED |
| 16-Aug-11 | 16-Aug-11 | DBH (21250) | REPLACED DRY GAS STANDARD, CERTIFIED |
| 08-Mar-11 | 08-Mar-11 | DBH (21250) | REPLACED DRY GAS STANDARD, CERTIFIED |
| 20-Sep-10 | 20-Sep-10 | DBH (21250) | CERTIFIED |
| 03-Jun-10 | 06-Apr-10 | DBH (21250) | REPLACED DRY GAS STANDARD |
| 06-Apr-10 | 06-Apr-10 | DBH (21250) | CERTIFIED |
| 20-Oct-09 | 20-Oct-09 | DBH (21250) | CERTIFIED. |
| 13-May-09 | 13-May-09 | DBH (21250) | FIRMWARE/SOFTWARE UPGRADE, CERTIFIED. |
| 05-Jan-09 | 05-Jan-09 | DBH (21250) | CERTIFIED. |
| 19-Nov-08 | 19-Nov-08 | NMJ (22392) | CALIBRATED, CERTIFIED AND ACCEPTED. |

mmB
PMB

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010539 Worksheet Start Date 12/3/2013
Location West Point PD
Address 433 12th St West Point VA 23181
DFS Technician Michelle Billeter License No. 26417

☐ Laboratory

☒ On-Site

Site Specifications

Yes No

1 Secured Environment:

Location must not be accessible to the general public.

☒

☐

2 Environment free from contaminants

☒

☐

3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☒

☐

4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒

☐

5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☒

☐

6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒

☐

7 Room Condition:

The site should be free of excessive moisture, heat and dust.

☒

☐

E-Seek
Keyboard
Printer
UPS

Old serial no.

New serial no.

Supplies

Mouthpieces

Certificates of Analysis

Operator Worksheet

Other:

100

100

Maintenance (if any)

Firmware/Software Upgrade.

Comments (if any)

Instrument Serial Number 010539

Certification Date 12/3/2013

Instrument Barometer (mm HG) 761

Reference Barometer (mm HG) 761

Reference Barometer(RB)Serial # 009111

RB Calibration Due 5/23/2014

| Standard (sea level) | PA Target | minimum | maximum | Sample 1 |
|----------------------|-----------|------------|------------|----------|
| 0.250 | 0.250 | 0.242 | 0.257 | 0.251 |
| Precision | | sample min | sample max | Sample 2 |
| 0.001 | | 0.250 | 0.251 | 0.250 |
| | | | | Sample 3 |
| | | | | 0.250 |

| Standard (sea level) | PA Target | minimum | maximum | Sample 1 |
|----------------------|-----------|------------|------------|----------|
| 0.150 | 0.150 | 0.145 | 0.154 | 0.150 |
| Precision | | sample min | sample max | Sample 2 |
| 0 | | 0.150 | 0.150 | 0.150 |
| | | | | Sample 3 |
| | | | | 0.150 |

| Standard (sea level) | PA Target | minimum | maximum | Sample 1 |
|----------------------|-----------|------------|------------|----------|
| 0.080 | 0.080 | 0.077 | 0.083 | 0.081 |
| Precision | | sample min | sample max | Sample 2 |
| 0 | | 0.081 | 0.081 | 0.081 |
| | | | | Sample 3 |
| | | | | 0.081 |

| Standard (sea level) | PA Target | minimum | maximum | Sample 1 |
|----------------------|-----------|------------|------------|----------|
| 0.020 | 0.020 | 0.017 | 0.023 | 0.019 |
| Precision | | sample min | sample max | Sample 2 |
| 0 | | 0.019 | 0.019 | 0.019 |
| | | | | Sample 3 |
| | | | | 0.019 |

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG320502-10

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

| Standard (sea level) | PA Target | minimum | maximum | Sample 1 |
|----------------------|-----------|------------|------------|----------|
| 0.100 | 0.100 | 0.097 | 0.103 | 0.100 |
| Precision | | sample min | sample max | Sample 2 |
| 0 | | 0.100 | 0.100 | 0.100 |
| | | | | Sample 3 |
| | | | | 0.100 |

DFS Technician

Michelle Bell

Date

12/3/13

Issuing Analyst

John Kennedy

Date

12/10/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

mmB
MSK

| | |
|---|-----------------------------|
| NAME OF ACCUSED INSTRUMENT, TEST, | NAME OF COURT DFS |
|---|-----------------------------|

BREATH ANALYSIS

| | | |
|---|--------------------------------------|---|
| SAMPLE EXAMINED AND TEST CONDUCTED BY BILLETER, MICHELLE, M | | AGENCY DFS Central Lab |
| DFS LICENSE NUMBER 26417 | LICENSE EXPIRES 10/01/2014 | DATE TEST CONDUCTED 12/03/2013 |
| TEST EQUIPMENT NUMBER 010539 | |  |

RESULTS: TIME SAMPLE TAKEN 09:34 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

| |
|----------------------|
| BREATH TEST OPERATOR |
|----------------------|

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 03 Dec 2013 at 09:59

HWS
MMB
NWS

Test Results

Instrument Serial Number 010539

Test # 000319 Subject Test

Test Location 1 Department of
Test Date 03 Dec 2013

Test Location 2 Forensic Science
Test Time 09:28
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name BILLETER
Agency DFS Central Lab

Operator's First Name MICHELLE

Operator's Middle Initial M

Card Serial Number 126417

License Number 26417

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 03 Dec 2013

End Time 09:35

Result Time 09:34

Result Date 03 Dec 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 09:28

Data Type BLK

Sample Value 0.000

Sample Time 09:29

Data Type CHK

Sample Value 0.100

Sample Time 09:30

Data Type BLK

Sample Value 0.000

Sample Time 09:31

Data Type SUBJ

Sample Value 0.000

Sample Time 09:31

Data Type BLK

Sample Value 0.000

Sample Time 09:32

Data Type SUBJ

Sample Value 0.000

Sample Time 09:34

Data Type BLK

Sample Value 0.000

Sample Time 09:35

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG211702-15

Standard Expiration Date 04/26/2014

Tank Pressure 375

Barometric Pressure 761 mmHg

Blow Sample Number 1

Blow Duration 3.96 sec

Blow Volume 1829 cc

End-of-Blow Time 09:31

Blow Sample Number 2

Blow Duration 3.82 sec

Blow Volume 1740 cc

End-of-Blow Time 09:34

Tamper Evident Stamp 26cb3b46

Test Status Code 0

Test Status Success

Intox EC/IR-II: Accuracy Check

mmB

Department of Forensic Science

Serial Number: 010539 Test Number: 320

Test Date: 12/03/2013 Test Time: 09:37 EST

Dry Gas Target: 0.100

Lot Number: AG211702-15 Exp Date: 04/26/2014

Tank Pressure: 370 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

WHL

| Test | g/210L | Time |
|------|--------|-------|
| BLK | 0.000 | 09:37 |
| CHK | 0.099 | 09:38 |
| BLK | 0.000 | 09:40 |
| CHK | 0.099 | 09:40 |
| BLK | 0.000 | 09:42 |
| CHK | 0.099 | 09:42 |

Test Status: *Success*

Calibration CRC: C4D607EF

mmB
W88

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010539 Test Number: 321

Test Date: 12/03/2013 Test Time: 09:46 EST

Dry Gas Target: 0.300

Lot Number: AG322702-03 Exp Date: 08/15/2015

Tank Pressure: 159 psi Barometric Pressure: 761 mmHg

System Check: *Passed*

| Test | g/210L | Time |
|------|--------|-------|
| BLK | 0.000 | 09:47 |
| CHK | 0.297 | 09:47 |
| BLK | 0.000 | 09:49 |
| CHK | 0.297 | 09:50 |
| BLK | 0.000 | 09:51 |
| CHK | 0.296 | 09:52 |

Test Status: *Success*

Calibration CRC: C4D607EF

mmB

WDL

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010539

System Date: 12/03/2013

System Time: 10:16 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

mmB

WJL

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010539 Test Number: 322

Test Date: 12/03/2013 Test Time: 10:18 EST

Dry Gas Target: 0.100

Lot Number: 0651210013-01 Exp Date: 04/01/2014

Tank Pressure: 816 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

| Test | g/210L | Time |
|------|--------|-------|
| BLK | 0.000 | 10:19 |
| CAL | 0.100 | 10:20 |

Test Status: *Success*

Calibration CRC: 03678BCC

MMB

NSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010539 Test Number: 323

Test Date: 12/03/2013 Test Time: 10:23 EST

Technician Initials: MMB

Dry Gas Target: 0.250

Lot Number: 0651225015-02 Exp Date: 04/01/2014

Tank Pressure: 512 psi Barometric Pressure: 760 mmHg

System Check: Passed

| Test | g/210L | Time |
|------|--------|-------|
| DIAG | Pass | 10:24 |
| BLK | 0.000 | 10:25 |
| CHK | 0.251 | 10:25 |
| BLK | 0.000 | 10:27 |
| CHK | 0.250 | 10:28 |
| BLK | 0.000 | 10:29 |
| CHK | 0.250 | 10:30 |
| BLK | 0.000 | 10:32 |

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

MMB

MSL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010539 Test Number: 324

Test Date: 12/03/2013 Test Time: 10:35 EST

Technician Initials: MMB

Dry Gas Target: 0.150

Lot Number: 0651215014-04 Exp Date: 04/01/2014

Tank Pressure: 1026 psi Barometric Pressure: 760 mmHg

System Check: Passed

| Test | g/210L | Time |
|------|--------|-------|
| DIAG | Pass | 10:35 |
| BLK | 0.000 | 10:36 |
| CHK | 0.150 | 10:37 |
| BLK | 0.000 | 10:38 |
| CHK | 0.150 | 10:39 |
| BLK | 0.000 | 10:40 |
| CHK | 0.150 | 10:41 |
| BLK | 0.000 | 10:43 |

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

mmB

MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010539 Test Number: 325
Test Date: 12/03/2013 Test Time: 10:44 EST

Technician Initials: *MMB*

Dry Gas Target: 0.080

Lot Number: 0651208012-06 Exp Date: 04/01/2014

Tank Pressure: 75 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

| Test | g/210L | Time |
|------|--------|-------|
| DIAG | Pass | 10:45 |
| BLK | 0.000 | 10:46 |
| CHK | 0.081 | 10:47 |
| BLK | 0.000 | 10:48 |
| CHK | 0.081 | 10:49 |
| BLK | 0.000 | 10:50 |
| CHK | 0.081 | 10:51 |
| BLK | 0.000 | 10:52 |

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

mmB

mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010539 Test Number: 326

Test Date: 12/03/2013 Test Time: 10:53 EST

Technician Initials: MMB

Dry Gas Target: 0.020

Lot Number: 0651202011-07 Exp Date: 04/01/2014

Tank Pressure: 159 psi Barometric Pressure: 759 mmHg

System Check: Passed

| Test | g/210L | Time |
|------|--------|-------|
| DIAG | Pass | 10:54 |
| BLK | 0.000 | 10:55 |
| CHK | 0.019 | 10:55 |
| BLK | 0.000 | 10:57 |
| CHK | 0.019 | 10:57 |
| BLK | 0.000 | 10:59 |
| CHK | 0.019 | 10:59 |
| BLK | 0.000 | 11:01 |

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

mmB

Nsh

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010539 Test Number: 327

Test Date: 12/03/2013 Test Time: 11:04 EST

Dry Gas Target: 0.300

Lot Number: AG322702-03 Exp Date: 08/15/2015

Tank Pressure: 154 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

| Test | g/210L | Time |
|------|--------|-------|
| BLK | 0.000 | 11:05 |
| CHK | 0.303 | 11:05 |
| BLK | 0.000 | 11:07 |
| CHK | 0.303 | 11:08 |
| BLK | 0.000 | 11:10 |
| CHK | 0.302 | 11:11 |

Test Status: *Success*

Calibration CRC: 03678BCC

mmb

post

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010539 Test Number: 328

Test Date: 12/03/2013 Test Time: 11:17 EST

Dry Gas Target: 0.100

Lot Number: AG320502-10 Exp Date: 07/24/2015

Tank Pressure: 1120 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

| Test | g/210L | Time |
|------|--------|-------|
| BLK | 0.000 | 11:18 |
| CHK | 0.100 | 11:18 |
| BLK | 0.000 | 11:20 |
| CHK | 0.100 | 11:21 |
| BLK | 0.000 | 11:22 |
| CHK | 0.100 | 11:23 |

Test Status: *Success*

Calibration CRC: 03678BCC




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

| | |
|---|-----------------------------|
| NAME OF ACCUSED INSTRUMENT, TEST, | NAME OF COURT DFS |
|---|-----------------------------|

BREATH ANALYSIS

| | | |
|---|--------------------------------------|---|
| SAMPLE EXAMINED AND TEST CONDUCTED BY BILLETER, MICHELLE, M | | AGENCY DFS Central Lab |
| DFS LICENSE NUMBER 26417 | LICENSE EXPIRES 10/01/2014 | DATE TEST CONDUCTED 12/03/2013 |
| TEST EQUIPMENT NUMBER 010539 | |  |

RESULTS: TIME SAMPLE TAKEN **11:32 EST**

SAMPLE'S ALCOHOL CONTENT **0.00** GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 03 Dec 2013 at 15:29

mmB
NSH

Test Results

Instrument Serial Number 010539

Test # 000329 Subject Test

Test Location 1 Department of
Test Date 03 Dec 2013

Test Location 2 Forensic Science
Test Time 11:25
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name BILLETER
Agency DFS Central Lab

Operator's First Name MICHELLE

Operator's Middle Initial M
License Number 26417

Card Serial Number 126417

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 03 Dec 2013 End Time 11:33

Result Time 11:32

Result Date 03 Dec 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:26

Data Type BLK

Sample Value 0.000

Sample Time 11:26

Data Type CHK

Sample Value 0.100

Sample Time 11:27

Data Type BLK

Sample Value 0.000

Sample Time 11:28

Data Type SUBJ

Sample Value 0.000

Sample Time 11:29

Data Type BLK

Sample Value 0.000

Sample Time 11:30

Data Type SUBJ

Sample Value 0.000

Sample Time 11:32

Data Type BLK

Sample Value 0.000

Sample Time 11:33

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG320502-10

Standard Expiration Date 07/24/2015

Tank Pressure 1115

Barometric Pressure 759 mmHg

Blow Sample Number 1 Blow Duration 3.63 sec

Blow Volume 1690 cc End-of-Blow Time 11:29

Blow Sample Number 2 Blow Duration 3.86 sec

Blow Volume 1789 cc End-of-Blow Time 11:32

Tamper Evident Stamp 321e7139

Test Status Code 0

Test Status Success